

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A method for optimizing ~~optimising~~ quality of service in a ~~the~~ packet-switched domain of a mobile communication system, ~~a~~ the method comprising wherein:
sending, by a core network entity of said system, ~~sends~~ to a radio access network entity of said system a request for the setting-up or reconfiguration of a radio bearer for a packet session for a mobile station, said request comprising ~~including~~ first information derived from quality of service information contained in a corresponding request received by said core network entity;
and
adding, by said core network entity, ~~adds~~ to said request second information, that is known at its a level of said core network entity ~~which can be used, together with said first information, to perform a call admission control at the radio level.~~
2. (currently amended): A method according to claim 1, wherein said second information ~~include~~ comprise information representative of radio access capabilities of said mobile station.
3. (currently amended): A method according to claim 1, wherein said radio access capabilities ~~include~~ comprise capabilities to support higher data rates.

4. (currently amended): A method according to claim 3, wherein said -capabilities to support higher data rates ~~include~~ comprise a multislot capability.

5. (currently amended): A method according to claim 3, wherein said -capabilities to support higher data rates comprise ~~include~~ a capability to support different data transfer modes.

6. (currently amended): A method according to claim 5, wherein said -different data transfer modes ~~include~~ comprise ~~the GPRS~~ (~~«~~ a General Packet Radio Service (GPRS) ~~»~~) mode and ~~the EGPRS~~ (~~«~~ an Enhanced General Packet Radio Service (EGPRS) ~~»~~) mode.

7. (currently amended): A method according to claim 1, wherein said setting-up or reconfiguration of a radio bearer ~~includes~~ comprises the creation or modification of a Packet Flow Context.

8. (currently amended): A method according to claim 7, wherein said request for the setting-up or the reconfiguration of a corresponding radio bearer is sent in a CREATE BSS PFC message.

9. (currently amended): A network element for a core network entity (SGSN) of a mobile communication system, comprising:

means for sending to a radio access network entity of said system a request for the setting-up or reconfiguration of a radio bearer for a packet session for a mobile station, said request comprising first information derived from quality of service information contained in a corresponding request received by said core network entity; and

means for adding to said request second information, that is known at a level of said core network entity~~means for performing a method according to claim 1.~~

10. (cancelled).

11. (currently amended): A network element of a Radio Access Network entity (BSS) of a mobile communication system, comprising:

a receiving module receiving from a core network entity of said system a request for the setting-up or reconfiguration of a radio bearer for a packet session for a mobile station, said request comprising first information derived from quality of service information contained in a corresponding request received by said core network entity and second information, known at a level of said core network entity.

~~means for performing a method according to claim 1.~~

12. (cancelled).

13. (new): The method according to claim 1, wherein:

the core network entity is a node of a General Packet Radio Service (GPRS) network;
the GPRS node sends the request to a node of a Radio Access Network (RAN);
the first information is derived from the corresponding request for connection of the mobile station;

second information comprises identification of a cell in which the mobile station currently resides and state of the cell; and

the RAN node determines whether to establish the connection for the requesting mobile station based on the first and second information received in the request from the GPRS node, by executing the call admission control.

14. (new): The method according to claim 13, wherein the second information further comprises whether the mobile station is an Enhanced General Packet Radio Service (EGPRS) enabled or not and whether the cell in which the mobile station currently resides is EGPRS enabled or not.

15. (new): The method according to claim 14, wherein the GPRS node is a serving GPRS support node (SGSN) and wherein the RAN node is a base station subsystem (BSS).

16. (new): The method according to claim 1, further comprising performing a call admission control at the radio level based on said first information together with said second information.

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17. (new): The network according to claim 9, further comprising means for performing a call admission control at the radio level based on said first information together with said second information.

18. (new): The network element according to claim 11, wherein said second information comprises information representative of radio access capabilities of said mobile station.